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Three Desmids new to the United States.—In the year of 1875 there was published a series of various algæ, and (also many desmids), chiefly new species and varieties, from all parts of the world, by Paul Reinsch at Erlangen (Franconia, Germany.) This work, which was dedicated to the eminent algologists Sir W. Archer, O. Norstedt and L. Rabenhorst, contains quite a number of desmids, and is entitled *Contributiones ad Algologiam et Fungologiam, auctore Paulo Friderico Reinsch.* Vol. I. Accedunt tabulæ CXXXI. Melanophyceæ: tabulæ LXI. Rhodophyceæ: tabulæ LXII. Chlorophyllophyceæ: tabulæ XVIII. Fungi: tabulæ IX. Lipsiæ T. O. Weigel. MDCCCLXXV. pp. XII. 103. 4to.

I find three new species of desmids in this work which are not enumerated in Wolle's "Desmids of the United States," and which for this reason, can be considered as new to the United States.

1. *Staurastrum Pseudo-Cosmarium*.—Semicellulæ a latere late ovato-cordatæ, margines laterales crenulato serrati; cellulæ a vertice trigonæ marginibus lateralibus rectis; isthmi latitudo $\frac{1}{3}$ — $\frac{1}{4}$ semi cellulæ latitudinis. Longit. 0.0786^{mm}. Latit. 0.056^{mm}.

Hab. Pennsylvania, North America.

Tab. ix., Fig. 1 a. Specimen a latere. Fig. 1 b. Specimen a vertice. p. 91-92.

2. *Xanthidium Nordstedtianum*.—Semicellulæ a latere late transverse ovato-truncatæ incisura acutangula latiore disjunctæ, anguli quatuor spinis tenuioribus binis armati, anguli laterales spino singulo armati. Longit. 0.053^{mm}. Latit. 0.0333^{mm}. Spin. longit. 0.0112^{mm}.

Hab. Pennsylvania, North America. Erlangæ Franconia.

A *Xanthid. cristato*, Bréb., differt dimensionibus minoribus, spinis tenuioribus in basi non dilatatis, semicellulis longioribus incisura acutangula disjunctis. Dimens. *Xanth. crist.*: longit. 0.0621^{mm}, latit. 0.059^{mm} (spin. excl.)

Tab. x. Fig. 6. Specimen a latere, ex massa ex algis unicellularibus composita. p. 92.

3. The work also contains a third species, which is described and figured, but not named. It is a

Cosmarium spec.—Semicellulæ elliptico-ovales in inferiore parte se adtingentes margine superiore late rotundato; isthmi latitudo triens diametri transversalis, membrana verruculis dense absque ordine dispositis exasperata; diameter transversalis diametri longitudinalis dimidio paulo minus. Longit. 0.0448^{mm}. Latit. 0.025^{mm}.

In massa algarum, Easton, Pennsylvania. America borealis.

A *Cosmario Botrytis* sat distincta species.

Tab. x., Fig. 7. Specimen a latere. p. 84.

I give this species the name *Reinschii* and will include it in the list of American desmids as *COSMARIUM REINSCHII*, n.

Kolosvar, Hungary.

JULES SCHAARSCHMIDT.

Cleistogamy in *Lamium*.—Early in March there were brought to me some plants of *Lamium amplexicaule*, L., which, despite the earliness of the season, seemed to be on the point of flowering, many of the buds showing color.

Late in April other plants were examined. Still there were no